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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/665,521	09/22/2003	Priyadarsan Patra	2207/1254202	5814	
7.	590 06/22/2006		EXAM	INER	
B. Delano Jor		DO, THUAN V			
	lokoloff, Taylor and Za Boulevard, Seventh Fl	ART UNIT	PAPER NUMBER		
Los Angles, C.	A 90025		2825		
			DATE MAIL ED: 06/22/2006	DATE MAIL ED: 06/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	ш			
		10/665,521	PATRA ET AL.				
Office Action Sur	mmary	Examiner	Art Unit				
		Thuan Do	2825				
The MAILING DATE of the Period for Reply	nis communication app	ears on the cover sheet with the	correspondence addre	ess			
	DEDICO 500 0501	/ 10 OFT TO EVOIDE (MONTH	(O) OD TUUDTY (OO)	D.4.\/O			
WHICHEVER IS LONGER, FR - Extensions of time may be available under after SIX (6) MONTHS from the mailing described above, and the set or extended to reply within the set or extended to the set of extended	COM THE MAILING DA er the provisions of 37 CFR 1.13 late of this communication. the maximum statutory period v I period for reply will, by statute, in three months after the mailing	IS SET TO EXPIRE 1 MONTH ATE OF THIS COMMUNICATION (186(a)). In no event, however, may a reply be the country of the cause the application to become ABANDONE date of this communication, even if timely filed.	N. mely filed the mailing date of this commedities (35 U.S.C. § 133).				
Status							
1) Responsive to communic	cation(s) filed on 05/22	<u>2/2006</u> .					
2a) ☐ This action is FINAL .	2b)☐ This	action is non-final.					
3)☐ Since this application is i	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance wit	h the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims							
4) Claim(s) <u>1-13,18,20,21,2</u>	3.24 and 26 is/are per	nding in the application.					
4a) Of the above claim(s)		- · · · · · · · · · · · · · · · · · · ·					
5) Claim(s) is/are all	owed.			•			
6) Claim(s) is/are rej	ected.			• 10			
7) Claim(s) is/are ob							
8) Claim(s) <u>1-13,18,20,21,2</u>	2 <u>3,24 <i>and</i> 26</u> are subje	ct to restriction and/or election re	equirement.				
Application Papers							
9)☐ The specification is objec	ted to by the Examine	r.					
		epted or b) objected to by the	Examiner.				
		drawing(s) be held in abeyance. Se					
Replacement drawing shee	t(s) including the correct	on is required if the drawing(s) is ob	jected to. See 37 CFR	1.121(d).			
11)☐ The oath or declaration is	objected to by the Ex	aminer. Note the attached Office	Action or form PTO-	152.			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made	of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)	_		, (, - (,				
1. Certified copies of	the priority documents	s have been received.					
2. Certified copies of	the priority documents	s have been received in Applicat	ion No				
· · · · · · · · · · · · · · · · · · ·		ity documents have been receive	ed in this National Sta	age			
, · ·	e International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed	Office action for a list	of the certified copies not receive	ed.				
Attachment(s)		,, 					
 Notice of References Cited (PTO-892 Notice of Draftsperson's Patent Draw 		4) 🔲 Interview Summary Paper No(s)/Mail D					
3) Information Disclosure Statement(s)		5) 🔲 Notice of Informal F	Patent Application (PTO-15	i2)			
Paper No(s)/Mail Date		6) Other:					

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DETAILED ACTION

1. This office action is responsive to amendment filed on 05/22/2006. Claims 1-13, 18,20,21,23,24,26 are pending. Claims 14-17,19,22,25,27 are canceled.

Examiner made a call to Mathew Fagan on 06/15/2006 and specified the reason for allowance of independent claims 18 and 24 that includes "repeating the developing and the selecting until changes in the objective parameter values fall below a predetermined threshold". Since the independent claim 1 does not have that feature therefore distinction of inventions is established and the office issues the follow restriction election.

RESTRICTION ELECTION

2. This application contains claims directed to the following patentably distinct species of the claimed invention:

Group 1, claims 1-13 draw to determining a set of objective parameters for the circuit; receiving noise constraints for the circuit; and optimizing values of the objective parameters based on the noise constraints.

Group 2, claims 18,20,21,23,24,26 draw to developing a set of sensitivity factors based on the objective parameters and timing constraints to meet noise constraints for the circuit, the sensitivity factors characterizing a noise sensitivity of the circuit, the developing to include allocating initial delay targets to a plurality of nodes in the circuit, the delay targets to meet the noise constraints, setting initial objective parameter values in accordance with the noise constraints by selecting continuously tunable components of the objective parameter values, the initial objective parameter values to define static logic settings, and repeating the allocating and the setting for adjusted delay target; selecting objective parameter values based on the sensitivity factors, the objective parameter values minimizing power costs to the circuit; and repeating the developing

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and the selecting until changes in the objective parameter values fall below a predetermined threshold.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement is traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48 (b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by

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a diligently-filed petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(h).

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuan Do whose telephone number is 571-272-1891. The examiner can normally be reached on Monday-Friday 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571-272-7483. The fax phone numbers for proceeding this application is 571 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 800-786-9199.

Thuan Do

Primary examiner

06/16/2006